Claims:

1. A mixed crystal of C.I. Pigment Red 170 and one or more compounds of the formula (1)

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$$\begin{array}{c} CONH_2 \\ X \\ NH \\ O \\ O \\ C_2H_5 \end{array}$$

in which

X has the definition F, Cl, Br, methyl or nitro.

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- 2. The mixed crystal as claimed in claim 1, containing between 0.1% and 99.9% by weight of C.I. Pigment Red 170 and between 99.9% and 0.1% by weight of at least one compound of the formula (1).
- 15 3. The mixed crystal as claimed in claim 1 or 2, containing between 1% and 99% by weight of C.I. Pigment Red 170 and between 99% and 1% by weight of at least one compound of the formula (1).
- 4. The mixed crystal as claimed in claim 1 or 2, containing between 80% and 99% by weight of C.I. Pigment Red 170 and between 20% and 1% by weight of at least one compound of the formula (1).

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- 5. A binary mixed crystal as claimed in at least one of claims 1 to 4, comprising C.I. Pigment Red 170 and a compound of formula (1) with X = Cl or X = methyl.
- 5 6. The mixed crystal as claimed in at least one of claims 1 to 5, which is isotypic with the alpha phase of C.I. Pigment Red 170.
  - 7. The mixed crystal as claimed in at least one of claims 1 to 5, which is isotypic with the beta phase of C.I. Pigment Red 170.
  - 8. The mixed crystal as claimed in at least one of claims 1 to 5, which is isotypic with the gamma phase of C.I. Pigment Red 170.
- A process for preparing a mixed crystal as claimed in one or more of
   claims 1 to 8, which comprises coupling a mixture of diazotized 4-amino-1benzenecarboxamide and at least one diazotized amine of the formula (2)

$$X$$
 $X$ 
 $X$ 
 $X$ 
 $X$ 

with a compound of the formula (3)

10. The process as claimed in claim 9, wherein 4-amino-1benzenecarboxamide and at least one amine of the formula (2) are mixed and jointly diazotized, or are separately diazotized and the diazonium salts are subsequently mixed.

11. A process for preparing a mixed crystal as claimed in one or more of5 claims 1 to 8, which comprises coupling at least one diazotized amine of the formula (2)

$$CONH_2$$
 $X$ 
 $NH_2$ 
 $(2)$ 

with a compound of the formula (3)

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$$\begin{array}{c|c} OH & O^{-C_2H_5} \\ \hline \\ O & \end{array}$$
 (3)

in the presence of C.I. Pigment Red 170.

15 12. A process for preparing a mixed crystal as claimed in one or more of claims 1 to 8, which comprises coupling diazotized 4-amino-1-benzenecarboxamide with a compound of the formula (3)

$$\begin{array}{c|c} OH & O & C_2H_5 \\ \hline \\ O & & \end{array}$$
 (3)

20 in the presence of at least one compound of the formula (1)

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- 13. A process for preparing a mixed crystal as claimed in one or more of claims 1 to 8, which comprises mixing C.I. Pigment Red 170 and at least one compound of formula (1) with one another and subjecting the mixture to at least one of the treatment steps of kneading, grinding, recrystallization, heating in water and/or in solvent, where appropriate under superatmospheric pressure.
- 14. The process as claimed in one or more of claims 9 to 13, wherein at least10 one of the steps is carried out in a microreactor.
  - 15. The use of a mixed crystal as claimed in one or more of claims 1 to 8, for pigmenting high molecular mass organic materials of natural or synthetic origin.
- 15 16. The use as claimed in claim 15 for pigmenting plastics, resins, varnishes, paints or electrophotographic toners and developers, inks, including printing inks, color filters or seed.
  - 17. The use as claimed in claim 15 or 16 for pigmenting automotive finishes.